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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/700,376	11/03/2003	Sampo J. Kaasila	BIT01-1B-US	5972

7590  
EDWARD W. PORTER  
24 String Bridge S12  
Exeter, NH 03833

04/26/2007

EXAMINER
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CASCHERA, ANTONIO A

ART UNIT	PAPER NUMBER
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2628

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	04/26/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/700,376	<b>Applicant(s)</b> KAASILA ET AL.	
	<b>Examiner</b> Antonio A. Caschera	<b>Art Unit</b> 2628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 27 February 2007.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 1,3-18 and 29-39 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1,3-18 and 29-31 is/are rejected.
- 7) ☒ Claim(s) 32-39 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 03 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### *Priority*

1. Acknowledgment is made of applicant's claim for priority under 35 U.S.C. 365(a).

### *Specification*

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the abstract not exceed 150 words in length since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

The abstract comprises the phrase, "Methods, systems and programming are disclosed..." (see lines 1-2 of the abstract) which can be implied and therefore should not be recited. The Office suggests the following to overcome the objection: "Methods, systems and programming for producing and displaying..." A correction of the abstract is required.

### *Claim Objections*

3. Claims 1, 3-18 and 29-39 are objected to because of the following informalities:
  - a. In reference to claims 1, 3-18 and 29-39, the claims contain "--" and "--" symbols which are incorrectly used (i.e. in numbering of the claims, "-1.") and in the preamble of certain claims (for example see preamble of claim 1, "A method of displaying -- on a subpixel addressable screen having...subpixels -- ")

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b. In reference to claims 3 and 6-8, claim 3 is recited as being dependent upon claim 2 however claim 2 is cancelled. The Office assumes that since claim 1 has been rewritten to include all of the claim limitations of claim 2, that claim 3 should be dependent upon claim 1. Note, claims 6-8 depend upon claim 3.

c. In reference to claims 1, 4 and 29, the phrase, "...on said screen to represent said string, which string bitmap is..." (see lines 37-38 of claim 1, for example) should read, "...on said screen to represent said string, the string bitmap is..."

Appropriate correction is required.

### *Claim Rejections - 35 USC § 112*

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 1, 3-18 and 29-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1, 4 and 29 recite the limitation "said subpixel-optimized font images" in line 43 of claim 1, for example. There is insufficient antecedent basis for this limitation in the claims: Note, the claims recite "subpixel-optimized images of character-font shape" however there is no explicit mentioning of "subpixel-optimized font images."

### *Response to Arguments*

5. The addition of claims 30-39 and cancellation of claim 2 are noted.

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6. Applicant's arguments, see page 20, 2<sup>nd</sup> paragraph of Applicant's Remarks, filed 06/26/06, with respect to the objection of claim 15 have been fully considered and are persuasive. The objection of claim 15 has been withdrawn.

7. Applicant's arguments, see page 20, last paragraph of Applicant's Remarks, filed 06/26/06, with respect to the prior art rejection of claims 1, 3-18 and 29 have been fully considered and are persuasive. The prior art rejections of claims 1, 3-18 and 29 have been withdrawn since previously objected to subject matter has been amended into independent form..

8. Applicant's arguments filed 06/26/06 have been fully considered but they are not persuasive.

In reference to the objection of the abstract, Applicant's arguments (see page 20, 1<sup>st</sup> paragraph of Applicant's Remarks) are not persuasive and informalities still exist within the abstract (see above objection for a correction).

### *References Cited*

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- a. Paul (U.S. Patent 6,384,839 B1)
  - Paul discloses an anti-aliasing method and apparatus for use with a strip color display which provides sub-pixel smoothing to enhance bitmap characters.

### *Conclusion*

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Antonio Caschera whose telephone number is (571) 272-7781. The examiner can normally be reached Monday-Thursday and alternate Fridays between 7:00 AM and 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung, can be reached at (571) 272-7794.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks

Washington, D.C. 20231


**or faxed to:**

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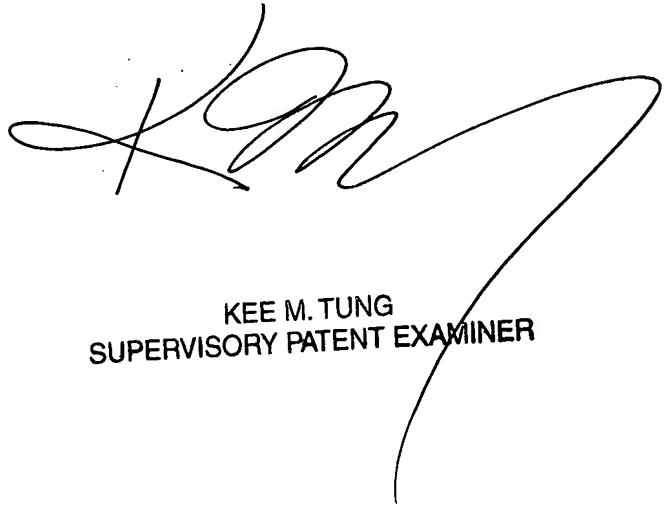
**571-273-8300 (Central Fax)**

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (571) 272-2600.

aac

  
4/24/07

**Antonio Caschera**  
Patent Examiner



KEE M. TUNG  
SUPERVISORY PATENT EXAMINER